GEOTECHNICAL UNIT

SOIL AND ROCK CLASSIFICATION, LEGEND, AND ABBREVIATIONS

TOTAL AND AACHTO CLACCITICATION	CONCICTENCY OF DENCEMECE
SOIL LEGEND AND AASHTO CLASSIFICATION CRANII AR MATERIALS SILT-CLAY MATERIALS ASSAULT NATIONALS	CONSISTENCY OR DENSENESS COMPACTNESS OR RANGE OF STANDARD RANGE OF UNCONFIN
CLASS. (\$35% PASSING #200) O 35% PASSING *200) URGANIC MATERIALS	PRIMARY COMPACTNESS OR HANGE OF STANDARD HANGE OF ONCOMEN SOIL TYPE CONSISTENCY PENETRATION RESISTANCE COMPRESSIVE STRENGTH (N - VALUE) (kN / m²)
CLASS. A-1-a A-1-b A-2-4A-2-5A-2-7/ A-7-5 A-3 A-6.A-7 SYMBOL 000000000000000000000000000000000000	VERY LOOSE
#10 50 MX SOILS CLAY PEAT #240 38 MX 50 MX 51 MN #200 15 MX 25 MX 35 MX 35 MX 35 MX 35 MX 36 MN	
GROUP INDEX: 8 8 8 4 8 4 8 MX 12 MX 16 MX NU MX AMOUNTS OF SOILS USUAL TYPES STORE FRACES. FINE SILTY OR CLAYEY SOILS SOILS SOILS MATTER MATTER PI OF MAJOR GRAVEL & SAND GRAVEL AND SAND SOILS SOILS • PI OF A-7-5 \$ (LL-30); PI OF A-7-6 > (LL-30) TEXTURE OR GRAIN SIZE	SROUND WATER □ WATER LEVEL IN BORE HOLE [IMMEDIATELY AFTER ORILLING (I.A SOON AFTER DRILLING (\(\sigma\) HR ■ STATIC WATER LEVEL (AFTER 24 HRS.) □ PERCHED WATER (PW). SATURATED ZONE. OR WATER BEARING STRAT
BOULDER COBBLE GRAVEL CUARSE SAND SILT CLAY GRAIN (mm) 305 75 2 0.6 0.425 0.2 0.075 0.005. SIZE (IN) 12 3 SOIL MOISTURE - CORRELATION OF TERMS SOIL MOISTURE SCALE (ATTERBERG LIMITS) FIELD MOISTURE GUIDE FOR FIELD MOISTURE DESCRIPTION -SATURATED- USUALLY LIQUID: VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE	MISCELLANEOUS SYMBOLS AND ABBREVIATIONS MISCELLANEOUS SYMBOLS AND ABBREVIATIONS SAMPLE DESIGNATION AUGER SORING SS-SPLIT SPO SAMPLE SOLL SYMBOL ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS INFERRED SOIL BOUNDARIES ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS INFERRED SOIL BOUNDARIES ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENT WITH SOIL SYMBOL SS-SPLIT SPO SAMPLE ST-SHELBY TU SAMPLE INSTALLATION
PLASTIC RANGE PLASTIC LIMIT OM _OPTIMUM MOISTURE -MOIST- (M) SULID: AT OR NEAR OPTIMUM MOISTURE SL _SHRINKAGE LIMIT -DRY- (D) REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE	STRIKE AND DIP APPARENT DIP (NORMAL TO) ROD SOUNDING SLOPE INDICATOR INSTALLATION SPI N-VALUE MONITORING WELL
ROCK DESCRIPTION	ABBREVIATIONS
IN THE BROADEST MEANING, HARD ROCK IS CONSIDERED TO BE THAT INDURATED EARTH MATERIAL WHICH CANNOT BE SAMPLED BY CONVENTIONAL SOIL SAMPLING TOOLS OR TECHNIQUES. THE BOUNDARY BETWEEN SOIL AND ROCK IS ARBITRARY, TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF "WEATHERED ROCK". FOR THE PURPOSE OF THIS INVESTIGATION, THESE MATERIALS ARE DIVIDED AS FOLLOWS: TERM SYMBOLS DESCRIPTION HARD CORED ROCK INFERRED AND MATERIAL THAT CANNOT BE PENETRATED BY POWER ROCK (HR) WEATHERED ROCK CORNO TOOLS FOR OBTAINING A SAMPLE WEATHERED ROCK (HWR) WEATHERED ROCK (HWR)	ALLUV. ALLUVIUM AR AUGER REFUSAL BLDR. BOULDER CALC. CALCAREOUS CL. CLAY CLY. CLAYEY COB. COBBLE CSE. COARSE DPT DYNAMIC PENETRATION TEST EST. ESTIMATED F. FINE FOSS. FOSSILIFEROUS FRAC. FRACTURED MIC. MICACEOUS MOT. MOTTLED N BLOWS / 30 CM NS NO SAMPLE TAKE ORG. ORGANIC REF. REFER TO RES. RESIDUAL S. SOFT SAT. SATURATED SD. SAND SDY. SANDY SED(S). SEDIMENT(S) SL. SILT, SILTY
SOFT WEATHERED DIFFICULTY USING POWER AUGERS AND YIELDS ROCK (SWR) SPT VALUES > 100 BLOWS BUT < SPT REFUSAL SPT REFUSAL \$ 2.5 cm OF PENETRATION PER 50 BLOWS IN SPT. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH AUGERS COULD NO LONGER PENETRATE. THE HARD ROCK SYMBOL IS SHOWN WHEN ROCK IS CORED AND ONLY TO THAT DEPTH CORED. A DESCRIPTION OF ROCK IS GIVEN, INCLUDING:	
CORE RECOVERY (REC.) - TOTAL LENGTH OF ROCK RECOVERED IN THE CORE BARREL DIVIDED BY THE TOTAL LENGTH OF THE CORE RUN TIMES 100%. ROCK QUALITY DESIGNATION (ROD) - TOTAL LENGTH OF SOUND ROCK SEGMENTS RECOVERED THAT ARE LONGER THAN OR EQUAL TO 10 cm DIVIDED BY THE TOTAL LENGTH OF THE CORE RUN TIMES 100%.	BENCH MARK: 2- RR SPIKE IN TREE 17.0m RT OF -BL- STA 6+94.1 EL = 504.099m STATE PROJECT NO. 8.2860401 T.I.P. NO. B-2583 F.A. NO.
SEAL SEAL SIgnature	COUNTY MADISON ROUTE SR-1001 SITE DESCRIPTION BRIDGE NO 328 OVER FRENCH BROAD RIVER PROJECT GEOLOGIST GLASS SUBMITTED BY FRYE PERSONNEL SHELTON GOSNELL BAILEY DATE SUBMITTED JAN'O

CAUTION NOTICE

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